

Claims

1. A float/sink separation device for separation of absorbent/floating material from product mixes, the absorbent/floating material at least partially saturated with residual fluid, said separation device comprising:
a vibrating filter for extraction of the residual fluid from absorbent/floating material;
a separating tank positioned to receive the filtered product mix from the vibrating filter, the separating tank filled with a liquid separating medium and having a flow generating device creating a surface flow in the separating medium and propelling the absorbent/floating material as a floating fraction from the reception point of the product mix to an output point for the floating fraction, at such a speed that absorption of the separating medium is substantially avoided.
2. The float/sink separation device of Claim 1, wherein the flow generating device comprises motor driven propellers positioned below the surface of the separating medium.
3. The float/sink separation device of Claim 1, wherein the flow generating device comprises nozzles which are positioned below the surface of the separating medium and from which separating medium is ejected under pressure.

4. The float/sink separation device of Claim 1, further comprising a mechanism for removal of the separated floating fraction from the separating tank.
5. The float/sink separation device of Claim 4, wherein the mechanism for removal of the floating fraction from the separation tank comprises a rake wheel in to propel the floating fraction out of the separator tank.
6. The float/sink separation device of Claim 4, wherein the mechanism for removal of the floating fraction from the separation tank comprises a circulating scraper which is arranged at the edge of the separator tank and which is partially immersed in the separating medium.
7. The float/sink separation device of Claim 1, further comprising a mechanism for removal of the sinking fraction from the separating tank.
8. The float/sink separation device of Claim 7, wherein the mechanism for removal of the sinking fraction comprises a circulating scraper floor which is immersed in the separating medium and which extends from the bottom of the separator tank to above its upper edge.

9. A float/sink separation device for separation of absorbent/floating material from product mixes, the absorbent/floating material at least partially saturated with residual fluid, said separation device comprising:
filter means for extraction of the residual fluid from absorbent/floating material;
a separating tank positioned to receive the filtered product mix from the filter means, the separating tank filled with a liquid separating medium and having flow generation means creating a surface flow in the separating medium and propelling the absorbent/floating material as a floating fraction from the reception point of the product mix to an output point for the floating fraction, at such a speed that absorption of the separating medium is substantially avoided.
10. The float/sink separation device of Claim 9, further comprising means for removal of the separated floating fraction from the separating tank.
11. The float/sink separation device of Claim 9, further comprising means for removal of the sinking fraction from the separating tank.